In the claims:

Please amend claim 1 as follows. The following list of claims replaces all preceding lists of claims.

1. (currently amended) An omni directional antenna, comprising:
a substrate, the substrate comprising a radiation portion and a power feed
portion, wherein a surface of the substrate defines a plane;

a plurality of radiating elements coupled to the radiation portion of the substrate;

the plurality of radiating elements producing at least a first omni directional radiation pattern at a first operating frequency and a second omni directional radiation pattern at a second operating frequency;

at least one power dissipation element coupled to the power feed portion of the substrate;

a power feed coupled to the plurality of radiating elements; and

a ground coupled to the at least one power dissipation element, such that the at least one power dissipation element reduces an impact of the power feed on a the first omni directional radiation pattern and the second omni directional radiation pattern of the omni directional antenna.

- 2. (original) The omni directional antenna according to claim 1, wherein the substrate comprises a printed circuit board.
- 3. (original) The omni directional antenna according to claim 1, wherein the plurality of radiating elements comprise a corresponding plurality of lengths.
- 4. (original) The omni directional antenna according to claim 3, wherein at least two of the corresponding plurality of lengths are identical.

- 5. (original) The omni directional antenna according to claim 3, wherein at least two of the corresponding plurality of lengths are different.
- 6. (original) The omni directional antenna according to claim 1, wherein the plurality of radiating elements correspond to the number of the at least one power dissipation elements.
- 7. (original) The omni directional antenna according to claim 1, wherein the power feed comprises a conductor of a coaxial cable and the ground comprises a jacket of the coaxial cable.
- 8. (original) The omni directional antenna according to claim 7, wherein the jacket of the coaxial cable is coupled to the at least one power dissipation element along a length thereof.
- 9. (original) The omni directional antenna according to claim 1, wherein the plurality of radiating elements comprises two radiating elements.
- 10. (original) The omni directional antenna according to claim 9, wherein the two radiating elements have different lengths.
- 11. (original) The omni directional antenna according to claim 1, wherein the at least one power dissipation element comprises three power dissipation elements.
- 12. (original) The omni directional antenna according to claim 11, wherein at least one of the three power dissipation elements has a different length than at least one of the other two power dissipation elements.
- 13. (original) The omni directional antenna according to claim 8, wherein the at least one power dissipation element comprises three power dissipation elements.
- 14. (original) The omni directional antenna according to claim 1, wherein the plurality of radiating elements reside in a plane substantially parallel to the plane defined by the substrate.

15. (currently amended) An omni directional antenna, comprising:

a radiation portion;

a power feed portion coupled to the radiation portion;

the radiation portion comprising a plurality of radiating elements, wherein each of the plurality of radiating elements are arranged in a face-to-face configuration;

the plurality of radiating elements producing at least a first omni directional radiation pattern at a first operating frequency and a second omni directional radiation pattern at a second operating frequency;

the power feed portion comprising a plurality of power dissipation elements, wherein each of the plurality of power dissipation elements are arranged in the face-to-face configuration;

a power feed coupled to the radiation portion; and

a ground coupled to the plurality of power dissipation elements, such that the plurality of power dissipation elements reduce an impact of the power feed on a the first omni directional radiation pattern and the second omni directional radiation pattern of the omni directional antenna.

- 16. (original) The omni directional antenna according to claim 15, wherein the plurality of radiating elements are separated by at least one distance.
- 17. (original) The omni directional antenna according to claim 15, wherein at the plurality of radiating elements comprise a corresponding plurality of lengths.
- 18. (original) The omni directional antenna according to claim 17, wherein at least one of the plurality of lengths is identical to another of the plurality of lengths.
- 19. (original) The omni directional antenna according to claim 17, wherein at least one of the plurality of lengths is different to another of the plurality of lengths.

- 20. (original) The omni directional antenna according to claim 15, wherein the power feed a conductor of a coaxial cable and the ground is an outer jacket of the coaxial cable.
- 21. (original) The omni directional antenna according to claim 20, wherein the coupling between the radiation portion and the power feed portion comprises the coaxial cable.
- 22. (original) The omni directional antenna according to claim 15, wherein the coupling between the radiation portion and the power feed portion comprises at least one non-conducting post.
- 23. (original) The omni directional antenna according to claim 15, wherein the face-to-face configuration arranges the plurality of radiating elements and the plurality of power dissipation elements in a substantially parallel arrangement.
- 24. (original) The omni directional antenna according to claim 15, wherein the plurality of radiating elements comprise two radiating elements.
- 25. (original) The omni directional antenna according to claim 24, wherein the two radiating elements converge.
- 26. (original) The omni directional antenna according to claim 24, wherein the two radiating elements diverge.
 - 27. (currently amended) An omni directional antenna, comprising:

a substrate, the substrate comprising a radiation portion and a power feed portion, wherein a surface of the substrate defines a shape other than a plane;

a plurality of radiating elements coupled to the radiation portion of the substrate;

the plurality of radiating elements producing at least a first omni directional radiation pattern at a first operating frequency and a second omni directional radiation pattern at a second operating frequency;

at least one power dissipation element coupled to the power feed portion of the substrate;

a power feed coupled to the plurality of radiating elements; and

a ground coupled to the at least one power dissipation element, such that the at least one power dissipation element reduces an impact of the power feed on a the first omni directional radiation pattern and the second omni directional radiation pattern of the omni directional antenna.

- 28. (original) The omni directional antenna according to claim 27, wherein the substrate is formed of a flexible material.
- 29. (original) The omni directional antenna according to claim 27, wherein the substrate is formed of a non-flexible material.
- 30. (original) The omni directional antenna according to claim 29, wherein the non-flexible material is printed circuit board material.
- 31. (original) The omni directional antenna according to claim 30, wherein the printed circuit board material is molded using an injection mold.
- 32. (original) The omni directional antenna according to claim 27, wherein the power feed comprises a conductor of a coaxial cable and the ground comprises an outer jacket of the coaxial cable.